

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2006, 11:03:24 ; Search time 134 Seconds
(without alignments)
373.800 Million cell
updates/sec

Title: US-10-621-741A-1
Perfect score: 638
Sequence: 1 KPKEDREWEKFKTKHITSQS.....FICITCRDNYPVHFVKTGKC
114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : A_Geneseq_21:*

1: geneseqp1980s:*

2: geneseqp1990s:*

3: geneseqp2000s:*

4: geneseqp2001s:*

5: geneseqp2002s:*

6: geneseqp2003as:*

7: geneseqp2003bs:*

8: geneseqp2004s:*

9: geneseqp2005s:*

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2006, 11:11:15 ; Search time 39 Seconds
(without alignments)
281.249 Million cell
updates/sec

Title: US-10-621-741A-1
Perfect score: 638

Sequence: 1 KPKEDREWEKFKTKHITSQS..... FICITCRDNYPVHFVKTGKC
114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : PIR_80:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

GenCore version 5.1.6
Copyright (c) 1993 - 2006 Compugen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2006, 11:10:20 ; Search time 160 Seconds
(without alignments)
502.689 Million cell
updates/sec

Title: US-10-621-741A-1
Perfect score: 638
Sequence: 1 KPKEDREWEKFKTKHITSQS..... FICITCRDNYPVHFVKTGKC
114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : UniProt_05.80:*

1: uniprot_sprot:*

2: uniprot_trembl:*

RESULT 1
AAB07489

ID AAB07489 standard; protein; 114 AA.

XX

AC AAB07489;

XX

DT 20-OCT-2000 (first entry)

XX

DE Protein derived from frog eggs which is active against tumours.

XX

KW Tumour; frog; pancreatic ribonuclease; glycoprotein.

XX

OS Rana pipiens.

XX

FH Key Location/Qualifiers

FT Modified-site 27

FT /note= "N-glycosylation site"

FT Modified-site 91

FT /note= "N-glycosylation site"

XX

PN WO200040608-A1.

XX

PD 13-JUL-2000.

XX

PF 24-DEC-1999; 99WO-US030799.

XX

PR 30-DEC-1998; 98US-00223118.

XX

PA (ALFA-) ALFACELL CORP.

XX

PI Ardel W;

XX

DR WPI; 2000-465953/40.

XX

PT New purified proteins for treating tumors in humans.

XX

PS Claim 1; Fig 4; 33pp; English.

XX

CC AAB07489-92 represent proteins which are bioactive against human tumour
CC cell lines. The proteins are derived from frog eggs, and are members of
CC the pancreatic ribonuclease superfamily. The proteins are glycoproteins,
CC and have a molecular weight of approximately 13 kDa. The glycan moieties
CC are not believed to be essential for bioactivity. The proteins are used
CC for treating tumors in humans

XX

SQ Sequence 114 AA;

Query Match 100.0%; Score 638; DB 3; Length 114;
 Best Local Similarity 100.0%; Pred. No. 2.5e-63;
 Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPKEDREWEKFTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 60
 |||||||

Db 1 KPKEDREWEKFTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 60

Qy 61 RATGRVNSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNPVHFVKTGKC 114
 |||||||

Db 61 RATGRVNSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNPVHFVKTGKC 114

RESULT 2

ADW24080

ID ADW24080 standard; protein; 114 AA.

XX

AC ADW24080;

XX
DT 07-APR-2005 (first entry)
XX
DE Rana pipiens 2325p4 protein, seqid:1.
XX
KW Genetic engineering; ribonuclease; pharmaceutical; recombinant protein;
KW tumor; cytostatic; gene therapy.
XX
OS Rana pipiens.
XX
PN US2005014161-A1.
XX
PD 20-JAN-2005.
XX
PF 17-JUL-2003; 2003US-00621741.
XX
PR 17-JUL-2003; 2003US-00621741.
XX
PA (ALFA-) ALFACELL CORP.
XX
PI Saxena SK;
XX
DR WPI; 2005-080949/09.
DR N-PSDB; ADW24081.
XX
PT New recombinantly produced ribonuclease, useful for treating tumors or
PT active against human carcinoma cells.
XX
PS Claim 9; SEQ ID NO 1; 32pp; English.
XX
CC The present invention relates to a method for recombinantly producing new
CC ribonuclease (RNases) protein. The invention is useful for treating
CC tumors and active against human carcinoma cells. The invention is also
CC useful in gene therapy. The present sequence is the Rana pipiens 2325p4
CC protein.
XX
SO Sequence 114 AA:

Query Match 100.0%; Score 638; DB 9; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.5e-63;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
ADW24138
ID ADW24138 standard; protein; 115 AA.
XX
AC ADW24138;
XX
DT 07-APR-2005 (first entry)
XX
DE Rana pipiens 2325p4 protein, seqid:59.
XX
KW Genetic engineering; ribonuclease; pha
KW tumor; cytostatic; gene therapy.
XX
OS Rana pipiens.
XX
PN US2005014161-A1.

XX
PD 20-JAN-2005.
XX
PF 17-JUL-2003; 2003US-00621741.
XX
PR 17-JUL-2003; 2003US-00621741.
XX
PA (ALFA-) ALFACELL CORP.
XX
PI Saxena SK;
XX
DR WPI; 2005-080949/09.
XX
PT New recombinantly produced ribonuclease, useful for treating tumors or
PT active against human carcinoma cells.
XX
PS Claim 8; SEQ ID NO 59; 32pp; English.
XX
CC The present invention relates to a method for recombinantly producing new
CC ribonuclease (RNases) protein. The invention is useful for treating
CC tumors and active against human carcinoma cells. The invention is also
CC useful in gene therapy. The present sequence is a Rana pipiens 2325p4
CC protein.
XX
SQ Sequence 115 AA;

Query Match 100.0%; Score 638; DB 9; Length 115;
Best Local Similarity 100.0%; Pred. No. 2.5e-63;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPKEDREWEKFKTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 60
|||
Db 2 KPKEDREWEKFKTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 61

Qy 61 RATGRVNKSSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNYPVHFVKTGKC 114
|||
Db 62 RATGRVNKSSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNYPVHFVKTGKC 115

RESULT 4
ADW24141
ID ADW24141 standard; protein; 116 AA.
XX
AC ADW24141;
XX
DT 07-APR-2005 (first entry)
XX
DE Rana pipiens 2325p4 protein, seqid:63.
XX
KW Genetic engineering; ribonuclease; pharmaceutical; recombinant protein;
KW tumor; cytostatic; gene therapy; signal peptide.
XX
OS Rana pipiens.
XX
PN US2005014161-A1.
XX
PD 20-JAN-2005.
XX
PF 17-JUL-2003; 2003US-00621741.
XX
PR 17-JUL-2003; 2003US-00621741.
XX
PA (ALFA-) ALFACELL CORP.
XX
PI Saxena SK;
XX
DR WPI; 2005-080949/09.

SQ Sequence 121 AA;

Query Match 100.0%; Score 638; DB 9; Length 121;
Best Local Similarity 100.0%; Pred. No. 2.7e-63;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPKEDREWEKFKTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 60
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 8 KPKEDREWEKFKTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 67

Qy 61 RATGRVNKSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNPVHFVKTGKC 114
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 68 RATGRVNKSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNPVHFVKTGKC 121

RESULT 6

ADW24145

ID ADW24145 standard; protein; 136 AA.

XX

AC ADW24145;

XX

DT 07-APR-2005 (first entry)

XX

DE Rana pipiens 2325p4 protein, seqid:67.

XX

KW Genetic engineering; ribonuclease; pharmaceutical; recombinant protein;
KW tumor; cytostatic; gene therapy; signal peptide.

XX

OS Rana pipiens.

XX

PN US2005014161-A1.

XX

PD 20-JAN-2005.

XX

PF 17-JUL-2003; 2003US-00621741.

XX

PR 17-JUL-2003; 2003US-00621741.

XX

PA (ALFA-) ALFACELL CORP.

XX

PI Saxena SK;

XX

DR WPI; 2005-080949/09.

XX

PT New recombinantly produced ribonuclease, useful for treating tumors or
PT active against human carcinoma cells.

XX

PS Claim 30; SEQ ID NO 67; 32pp; English.

XX

CC The present invention relates to a method for recombinantly producing new
CC ribonuclease (RNases) protein. The invention is useful for treating
CC tumors and active against human carcinoma cells. The invention is also
CC useful in gene therapy. The present sequence is a Rana pipiens 2325p4
CC protein.

XX

SQ Sequence 136 AA;

Query Match 100.0%; Score 638; DB 9; Length 136;
Best Local Similarity 100.0%; Pred. No. 3.1e-63;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KPKEDREWEKFKTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 60
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Db 23 KPKEDREWEKFKTKHITSQSVADFNCNRTMNDPAYTPDGQCKPINTFIHSTTGPVKEICR 82

Qy 61 RATGRVNKSSTQQFTLTTCKNPIRCKYSQSNTTNFICITCRDNPVHFVKTGKC 114
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

